Form Approved Through 5/2004 OMB No. 0925-0001

Total Project Period From: Through: Requested Budget Period: Requested Budget Budge	Department of He	ealth and Human Services	Revie	w Group	Туре	Activity	Grant Number	JIVIB NO. 0925-0001
1. TITLE OF PROJECT  2a. PRINCIPAL INVESTIGATOR OR PROGRAM DIRECTOR (Name and address, street, city, state, zip code)  3. APPLICANT ORGANIZATION (Name and address, street, city, state, zip code)  3. APPLICANT ORGANIZATION (Name and address, street, city, state, zip code)  4. ENTITY IDENTIFICATION NUMBER  2c. DEPARTMENT, SERVICE, LABORATORY, OR EQUIVALENT  2d. MAJOR SUBDIVISION  E.MAIL:  6. HUMAN SUBJECTS  6. HUMAN SUBJECTS  6. HUMAN SUBJECTS  7. VERTEBRATE ANIMALS  7. LITYES, "IACUC approval Date  1 No Sa Research Exempt   6b. Human Subjects Assurance No.   7b. Animal Welfare Assurance No.   7c. Lityes, "IACUC approval Date  1 No Exempt ("Yes" in 6a):   6c. NI+Defined Phase III   7b. Animal Welfare Assurance No.   7c. Lityes, "IACUC approval Date  1 No Exempt ("Yes" in 6a):   6c. NI+Defined Phase III   7b. Animal Welfare Assurance No.   7c. Ani								
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1. TITLE OF PROJECT  2a. PRINCIPAL INVESTIGATOR OR PROGRAM DIRECTOR (Name and address, street, city, state, zip code)  2b. E-MAIL ADDRESS  2c. DEPARTMENT, SERVICE, LABORATORY, OR EQUIVALENT  2d. MAJOR SUBDIVISION  2d. MAJOR SUBDIVISION  E-MAIL:  6. HUMAN SUBJECTS  6. Research Exempt  9			-		get Perio	d:	Thurstall	
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Exemption No.   Clinical Trial   No   Yes	res	Co. NILL Defined Dhoos III		al Malfar				
If Not Exempt ("No" in 6a):    RB approval date				iai wellai	e Assura	ince No.		
S. COSTS REQUESTED FOR NEXT BUDGET PERIOD   9. INVENTIONS AND PATENTS   No   Yes   If "Yes,"   Previously Reported   Not	<del></del>							
8a. DIRECT \$ 8b. TOTAL \$ 9. INVENTIONS AND PATENTS  8a. DIRECT \$ 8b. TOTAL \$ 9. INVENTIONS AND PATENTS    No		<u> </u>						
8a. DIRECT \$ 8b. TOTAL \$								
10. PERFORMANCE SITE(S) (Organizations and addresses)  11a. PRINCIPAL INVESTIGATOR OR PROGRAM DIRECTOR (Item 2a)  11b. ADMINISTRATIVE OFFICIAL (Item 2a)  11c. NAME AND TITLE OF OFFICIAL SIGNING FOR APPLICANT ORGANIZATION (Item 14)  NAME  11c. NAME AND TITLE OF OFFICIAL SIGNING FOR APPLICANT ORGANIZATION (Item 14)  NAME  TITLE  TELEPHONE ( )  FAX ( )  E-MAIL  12. Corrections to Page 1 Face Page  13. PRINCIPAL INVESTIGATOR/PROGRAM DIRECTOR ASSURANCE: I certify that the statements herein are true, complete and accurate to the best of my knowledge. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. I agree to accept responsibility for the scientific conduct of the project and to provide the required progress reports if a grant is awarded as a result of this application.  14. APPLICANT ORGANIZATION CERTIFICATION AND ACCEPTANCE: I certify that the statements herein are true, complete and accurate to the best of my knowledge, and accept the obligation to comply with Public Health Services terms and conditions if a grant is awarded as a result of this application.		1		_	_	_	5	
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**DETAILED BUDGET FOR NEXT BUDGET FROM** THROUGH **GRANT NUMBER** PERIOD - DIRECT COSTS ONLY PERSONNEL (Applicant organization only) DOLLAR AMOUNT REQUESTED (omit cents) TYPE EFFORT NAME **ROLE ON PROJECT** APPT. ON SALARY **FRINGE TOTALS** (months) PROJ. **REQUESTED BENEFITS** Principal Investigator SUBTOTALS \_ **CONSULTANT COSTS** EQUIPMENT (Itemize) SUPPLIES (Itemize by category) **TRAVEL** INPATIENT PATIENT CARE COSTS **OUTPATIENT** ALTERATIONS AND RENOVATIONS (Itemize by category) OTHER EXPENSES (Itemize by category) \$ SUBTOTAL DIRECT COSTS FOR NEXT BUDGET PERIOD **DIRECT COSTS** CONSORTIUM/CONTRACTUAL COSTS FACILITIES AND ADMINISTRATON COSTS TOTAL DIRECT COSTS FOR NEXT PROJECT PERIOD (Item 9a, Face Page) \$

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BUDGET JUSTIFICATION	
Provide a detailed budget justification for those line items and a recommended. Use continuation pages if necessary.	amounts that represent a significant change from that previously
FROM	THROUGH
CURRENT BUDGET PERIOD	Mikoboli
Explain any estimated unobligated balance (including prior year	r carryover) that is greater than 25% of the current year's total budget.

GRANT NUMBER

#### BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.	
Follow this format for each person, DO NOT EXCEED FOLIR PAGES	

AME	POSITION TITLE					
DUCATION/TRAINING (Begin with baccalaureate or other initial profe	essional education, su	ch as nursing, and inclu	ude postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY			

qе limit.

- A. Positions and Honors. List in chronological order previous positions, concluding with your present position. List any honors. Include present membership on any Federal Government public advisory committee.
- B. Selected peer-reviewed publications (in chronological order). Do not include publications submitted or in preparation.
- C. Research Support. List selected ongoing or completed (during the last three years) research projects (federal and nonfederal support). Begin with the projects that are most relevant to the research proposed in this application. Briefly indicate the overall goals of the projects and responsibilities of principal investigator identified above.

NAME OF INDIVIDUAL		
ONGOING/COMPLETED		
Project Number (Principal Investigator)	Dates of Project (Entire Period of Support)	Percent Effort
Source	Annual Direct Costs	
Title of Project (or Subproject)		
The major goals of this project are		

#### Sample

### ANDERSON, R.R.

**ONGOING** 

2 R01 HL 00000-13 Anderson (PI) 3/1/97 - 2/28/00NIH/NHLBI

\$186,529

30%

Chloride and Sodium Transport in Airway Epithelial Cells

The major goals of this project are to define the biochemistry of chloride and sodium transport in airway epithelial cells and clone the gene(s) involved in transport.

4/1/94 - 3/31/99 5 R01 HL 00000-07 Baker (PI) NIH/NHLBI \$122,717

10%

Ion Transport in Lungs

The major goal of this project is to study chloride and sodium transport in normal and diseased lungs.

PHS 398/2590 (Rev. 05/01)

## **BIOGRAPHICAL SKETCH**

Provide the following information for the key personnel in the order listed for Form Page 2. Follow the sample format for each person. **DO NOT EXCEED FOUR PAGES.** 

NAME	POSITION TITL	.E			
EDUCATION/TRAINING (Begin with baccalaureate or other initial profe	EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)				
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY		
INSTITUTION AND LOCATION	(if applicable)	TEAR(S)	FIELD OF STODY		

PROGRESS REPORT SUMMARY	GRANT NUMBER				
	PERIOD COVERED BY THIS REPORT				
PRINCIPAL INVESTIGATOR OR PROGRAM DIRECTOR	FROM	THROUGH			
APPLICANT ORGANIZATION		1			
TITLE OF PROJECT (Repeat title shown in Item 1 on first page)					
TITLE OF PROJECT (Repeat title shown in Item 1 on first page)					
TITLE OF PROJECT (Repeat title shown in Item 1 on first page)  A. Human Subjects (Complete Item 6 on the Face Page)					
,	ince Previous Submission	ge			
A. Human Subjects (Complete Item 6 on the Face Page)		ge			

(SEE INSTRUCTIONS)

WOMEN AND MINORITY INCLUSION

See PHS 398 Instructions. Use Inclusion Enrollment Report Format Page and, if necessary, Targeted/Planned Enrollment Format Page.

•				
		G 	RANT NUMBER	
	CHEC	KLIST		
1. PROGRAM INCOME (See instr All applications must indicate wheth anticipated, use the format below to	her program income is anticipated during	g the period(s) fo	or which grant support is requested.	If program income is
Budget Period	Anticipated Amount		Source(s)	
2. ASSURANCES/CERTIFICATION	S (See instructions.)			
The following assurances/certificationsignature of the Official Signing for Arof the application. Descriptions of incorprovided in Section III of the PHS 39 where applicable, provide an explanation of the PHS and the PHS applicable of the PHS and the PHS applicable of the PHS applicabl	ns are made and verified by the applicant Organization on the Face Page dividual assurances/ certifications are 8. If unable to certify compliance, ation and place it after this page.  Human Pluripotent Stem Cells man Fetal Tissue •Women and Minority	[Type 1] or revis on Federal Debt 690); •Handicap Discrimination ( HHS 680 or HH Research •Final	d Suspension •Drug- Free Workplace sed [Type 1] applications only); •Lobby t •Research Misconduct •Civil Rights (sped Individuals (Form HHS 641 or HFF 641) •Age ES 690); •Recombinant DNA and Humancial Conflict of Interest (except Phase Certification of Research Institution Page 1	ving •Non-Delinquency Form HHS 441 or HHS HS 690) •Sex Discrimination (Form an Gene Transfer e I SBIR/STTR)
3. FACILITIES AND ADMINSTRAT	IVE (F&A) COSTS	F&A costs will	not be paid on construction grain	nts, grants to Federal
Indicate the applicant organization's with the appropriate DHHS Region	s most recent F&A cost rate established hal Office, or, in the case of for-profit with the appropriate PHS Agency Cost	organizations, q additional instru National Rese	grants to individuals, and conference actions provided for Research Care earch Service Awards, Small I Business Technology Transfer Gran	e grants. Follow any er Awards, Institutional Business Innovation
DHHS Agreement dated:			No Facilities and Administrative C	osts Requested.
No DHHS Agreement, but rate	e established with	_	Date	
CALCULATION*				
Entire proposed budget period:	Amount of base \$	x Rate applied	% = F&A costs \$	
	Add to total direct costs fro	m Form Page 2 a	nd enter new total on Face Page, Iten	 n 8b.
*Check appropriate box(es):  Salary and wages base	Modified total direct of	and have	Other base (Explain)	
	<u>—</u>	ost base	Other base (Explain)	
Off-site, other special rate, or n Explanation (Attach separate sheet,	nore than one rate involved (Explain)			
Explanation (Attach separate sheet,	II Hetessary.).			
PHS 2590 (Rev. 05/01)	Page _			Form Page 6

## **PERSONNEL REPORT**

GRANT NUMBER

Place this form at the end of the signed original copy of the application. Do not duplicate.

All Key Personnel for the Current Budget Period

Name	Degree(s)	SSN	Role on Project (e.g. Pl, Res. Assoc.)	Date of Birth (MM/DD/YY)	Annua % Effor

NEXT BUDGET PERIOD	FROM	THROUGH	GRANT NUMBER
(Follow instructions carefully)			
TEMIZE DIRECT COSTS REQUESTED FOR NE	XT BUDGET PERIOD		DOLLAR AMOUNT REQUESTED (omit cent
PREDOCTORAL STIPENDS			
		No Demiserado	\$
POSTDOCTORAL STIPENDS (Itemize)		No. Requested:	Ψ
		No. Requested:	\$
OTHER STIPENDS (Specify)		·	Ψ
			\$
TOTAL STIPENDS			\$
TUITION, FEES, AND INSURANCE (Itemize)			
			\$
TRAINEE TRAVEL (Describe)			
			\$
TRAINEE RELATED EXPENSES			
			\$
TOTAL DIRECT COSTS FOR NEXT BUDG	ET PERIOD (Also enter o	on Page 1, Item 8a)	\$
PHS 2590 (Rev 05/01)	Pag	e	NRSA Additional Budget Pag

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Common of Trains as		GRANT NUMBER
Summary of Trainees		CITAIN NOWIDER
Complete for trainees who have left the progra	am or who have comp	
Name	Degree Earned	Current Position
Complete for all trainees for this reporting per	iod.	
		e "Inclusion Enrollment Report Format Page."
See PHS 398.		
PHS 2590 (Rev 05/01)	Page	NRSA Summary of Trainees
		Additional Form Page 5

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Princinal	Investigator/Program	Director	(Last	firet	middle).	
TITICIPAL	IIIVEStigator/Frogram	DIFECTOR	(Lasi,	mot,	mudue).	

# **Targeted/Planned Enrollment Table**

This report format should NOT be used for data collection from study participants.

Study Title:

**Total Planned Enrollment:** 

TARGETED/PLANNED	ENROLLMENT: N	umber of Subjects	s		
Ethnic Category	Sex/Gender				
	Females	Males	Total		
Hispanic or Latino					
Not Hispanic or Latino					
Ethnic Category Total of All Subjects*					
Racial Categories					
American Indian/Alaska Native					
Asian					
Native Hawaiian or Other Pacific Islander					
Black or African American					
White					
Racial Categories: Total of All Subjects *					

<sup>\*</sup>The "Ethnic Category Total of All Subjects" must be equal to the "Racial Categories Total of All Subjects."

niddle):
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## **Inclusion Enrollment Report**

This report format should NOT Study Title:	be used for da	ta collection	on from study p	participants.	
Total Enrollment:	Protocol	Protocol Number:			
Grant Number:					
PART A. TOTAL ENROLLMENT REPORT: Number Et	ber of Subjects E hnicity and Race		Date (Cumulative	<b>e)</b>	
Ethnic Category	Sex/Gender				
	Females	Males	Unknown or Not Reported	Total	
Hispanic or Latino				*	
Not Hispanic or Latino					
Unknown (Individuals not reporting ethnicity)					
Ethnic Category: Total of All Subjects*				,	
Racial Categories					
American Indian/Alaska Native					
Asian					
Native Hawaiian or Other Pacific Islander					
Black or African American					
White					
More than one race					
Unknown or not reported					
Racial Categories: Total of All Subjects*				,	
PART B. HISPANIC ENROLLMENT REPORT: N	lumber of Hispar	nics or Latin	nos Enrolled to [	Date (Cumulative)	
Racial Categories	Females	Males	Unknown or Not Reported	Total	
American Indian or Alaska Native					
Asian					
Native Hawaiian or Other Pacific Islander					
Black or African American					
White					
More Than One Race					

Unknown or not reported

Racial Categories: Total of Hispanics or Latinos\*\*

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<sup>\*</sup> These totals must agree.

<sup>\*\*</sup> These totals must agree.